**Hands on homework**

1. The entries are:

port vlan MAC age

port vlan MAC age

1. The links are:

b-s1

s1-s2

a-s1

d-s2

e-s2

1. The link is:

s1-s2: id = 25

1. The entries did not change:

port vlan MAC age

port vlan MAC age

1. The links are:

e-s2

d-s2

s1-s2

a-s1

b-s1

1. The entries are:
2. Port vlan MAC age

4 25 00:00:00:ee:ee:ee 138

2 25 00:00:00:ee:ee:ee 164

1. Pinging e runs successfully whereas pinging c fails with a “Destination Host Unreachable” error. The first ping is successful because hosts b and e are in the same VLAN, thus, reachable from each other. The second ping fails because hosts b and c are in different VLANs, and communication between different VLANs require a router (level 3 switch).
2. The behavior is different. The ping is successful for both c and e. This is because if VLAN is not configured and there is a direct connection between two switches, the two switches and their hosts make the same broadcast domain. Therefore, pinging any host on either switch should be successful.